

HIGH PERFORMANCE EFFICIENT SUBSYSTEM
FOR DATA OBJECT STORAGE

ABSTRACT OF THE DISCLOSURE

A non-hierarchical or linear directory structure for a mass storage unit such as a
5 disk. The directory structure can be kept in an auxiliary semiconductor memory. The
disk is partitioned into segments of equal size. The directory structure presumes that
data objects reside wholly and contiguously within a given area of the disk segments.
While a variable number of objects may be stored within each segment, a given object is
not allowed to occupy more than one segment. During a storage operation, objects are
10 assigned to segments in a round-robin fashion, to equalize segment utilization.